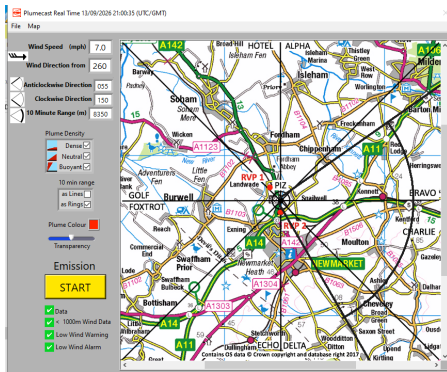
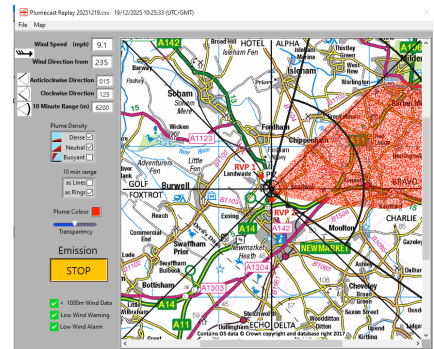


PLUMECAST®

An invaluable tool for analysing dust and odour incidents
and for real-time management of risk sites



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Benefits

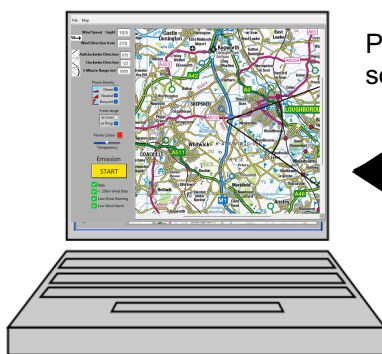
Highly accurate real time plume mapping and post-analysis of events from recorded data.

Identifies areas that could be impacted or that could not be impacted either in real time or in the past. This could eliminate a possible source as the cause of pollution.

Given a receptor site PlumeCast can identify the area that must contain the source. This will assist locating a source of pollution.

How it works

The concept is simple. PlumeCast is a combination of software running on a PC and wind sensor data. Using actual local data, including turbulence, is key. The PC runs an atmospheric dispersion model updated every second with real wind data. It then displays the area at risk from a release and for a real event also displays the calculated location of an airborne plume. Using modern anemometers allows turbulence characteristics to be measured directly rather than estimated. This makes dispersion modelling much more accurate as well as allowing real-time information.



PC running PlumeCast
software displaying risk area



Wind sensor on
or near risk site

Data stream via. RS-232, RS-485
Weatherfile cloud, internet etc.

Real time applications

Plumecast software can take wind sensor data in real-time and use it to give an accurate indication of the area over which any release might go.

Analysing past events

The Plumecast model can be run on suitable recorded wind data collected previously or archives it creates. The Plumecast analysis is a powerful tool for establishing if nuisance from dust or odour is possible at a given receptor site. Using an actual run of wind gives it a high level of reliability.

Plumecast can be run either on a known or suspected source location or based on a known receptor site. In the latter case it will identify a sector within which the source must be located.

Plumecast itself creates a continuous archive of raw and processed data that can also be used to analyse past events. It will use the actual wind data from or near to a source or receptor over a set period and calculate where any material released would have gone over a particular time.

Plumecast runs on Windows 10 or Windows 11

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